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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ipplication of: David MENDLOVIC, et al

Application No.: 09/937,580

Group No.:

Filed: September 27, 2001

Examiner:

For: A METHOD AND SYSTEM FOR SUPER RESOLUTION

Technology Center 2600

Attorney Docket No.: U 013655-0

Assistant Commissioner of Patents Washington, D.C. 20231

CERTIFICATE OF MAILING UNDER 37 C.F.R. 1.8(a)

I hereby certify that the attached correspondence comprising:

Information Disclosure Statement Form PTO-1449 Twenty Five (25) References Post Card

is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

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on November 7, 2001

JULIAN H. COHEN

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

OIPE	In re Application of:	Art Unit:
JAN 1 5 2002	David MENDLOVIC et al.	Examiner: (N/A)
FEW & TRANFARANCE	Serial No.: 09/937,580)	Washington, D.C.
	Filed: September 27, 2001	October 21, 2001
	For: A METHOD AND SYSTEM FOR SUPER) RESOLUTION	Docket No.: U 013655-0

INFORMATION DISCLOSURE STATEMENT [IDS]

RECEIVED

FEB 2 1 2002

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

Technology Center 2600

Sir:

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

[X] 1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it is filed:

(Check one of the boxes A-D)

- [X] A within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.
 - B. before the mailing date of a first office action on the merits.
- [] C. after (A) and (B) above, but before final rejection or allowance, and Applicants have made the necessary certification (box "i" below) or paid the necessary fee (box "ii" below).

(check one of the boxes "i" and "ii" below:)

[] i. Counsel certifies that, upon information and belief, each item of information listed herein was either (a) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

[] ii. A check for the fee set forth in 1.17(p), presently believed to be \$230, is enclosed (check no).
D. after (A), (B) and (C) above, but before payment of the issue fee: Applicant petitions under 37 C.F.R. 1.97(d) for the consideration of this IDS. A check for the fee set forth in §1.17(i), presently believed to be \$130 is enclosed (check no). Counsel certifies that, upon information and belief, each item of information listed herein was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS; or (ii) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO-1449) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.
(check boxes A and/or B and fill in blanks, if appropriate.) [] A. Document(s) is (are) deemed substantially cumulative to document(s), and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.
[] B. Certain documents were previously cited by or submitted to the Office in the following prior application(s), which are relied upon under 35 U.S.C. 120:
[insert serial numbers and filing dates of prior applications]
Applicant identifies these documents by attaching hereto copies of the forms PTO-892 and PTO-1449 from the files of the prior application(s) or a fresh PTO-1449 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.
[X] 3. Document "An Experiment Going Beyond Abbe's Limit of Diffraction", by W. Gartner and A. Lohmann (Page 2, line AH) is not in the English language. In accordance with 1.98(c), Applicant states:
[X] An English translation of each document (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application, or English-language abstract (or claim) is enclosed.
[] A concise explanation of the relevance of document(s) is found in the attached search report (see reply to Comment 68 in the preamble to the final rules; 1135 OG 13 at 20).
[] A concise explanation of the relevance of document(s) is set forth as follows: [Insert concise explanation of relevance]
[] A concise explanation of the relevance of document(s) can be found on page(s) of the specification.
[] A concise explanation of document(s) can be found on the attached sheet.

reply to Con	aments 67 and 68 in the pream	ible to the final rules; 1135 OG 13 at 20).
0	5. Other information being pr	rovided for the examiner's consideration follows:
		, which issued during the prosecution of Applicant's esponds to the present application.
	6 In accordance with 37 C l	FR = 1.97(a) and (h) the filing of this IDS should not be

4. No explanation of relevance is necessary for documents in the English language (see

6. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

CROSS REFERENCE UNDER 37 C.F.R. §1.78 TO RELATED APPLICATIONS

Pursuant to 37 C.F.R. § 1.78, Applicant notes that the above-identified patent application may be related to the following U.S. Patent Applications:

Respectfully submitted,

Julian H. Cohen c/o Ladas & Parry 26 West 61st Street

New York, NY 10023 Reg. No. 20,302 (212) 708-1887

Date: October 21, 2001

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FORM PTO-1449 (Colb)	ATTY DOCKET NO. U 013655-0	SERIAL NUMBER 09/937,580
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT	APPLICANT David MENDLOVIC, et al.	RECEIVED FEB 2 1 2002 Technology Cont
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TRANSMORT	U.S. PATENT DOCUMENTS	

U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
	AA	5,657,147	Aug. 1997	Yoshikawa et al.	359	208	
	AB	5,315,095	May 1994	Marom et al.	235	462	
	AC	4,748,316	May 1988	Dickson	235	454	
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	AE	5,680,253	Oct. 1997	Hasegawa et al.	359	566	
	AF	4,978,860	Dec. 1990	Bayley et al.	250	568	
	AG	5,638,211	June 1997	Shiraishi	359	559	

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	AI	H. Dammann et al., "High Efficiency In-Line Multiple Imaging By Means of					
	A	Multiple Phase Hologram	Multiple Phase Holograms", Opt. Commun. 3(5), July 1971, pp. 312-315.				
	AJ	D. Mendlovic et al., "Shi	ovic et al., "Shift and Scale Invariant Pattern Recognition using Mellin				
	AJ	Radial Harmonics", Opt.	ommun. 67(3), July 1988, pp. 172-176.				
	AK		tical-Coordinate Transformation Methods and				
Optical-Interconnection Architectures", Appl. Opt. 32(26), September 1							
	L	5119-5124.					
EXAMINI	ER:		DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date: October 21, 2001

Page 2 of 3 FORM PTO-1449 (Colb) ATTY DOCKET NO. SERIAL NUMBER U 013655-0 09/937,580 LIST OF PATENTS AND PUBLICATIONS RECEIVED **APPLICANT** FOR APPLICANTS' INFORMATION FEB 2 1 2002

Technology Center 2600 David MENDLOVIC, et al. **STATEMENT** FILING DATE JAN 1 5 2002 September 27, 2001 **U.S. PATENT DOCUMENTS**

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	AA	4,716,414	Dec. 1987	Luttrell et al.	342	179	
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	AC	5,684,620	Nov. 1997	Schoon	359	298	

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AJ	D. Mendlovic and A. W.	Lohmannn, "Space-Bandwidth Product Adaptation and esolution: Fundamentals", JOSA 14(3), March 1997, pp.				
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	AK	A. Zomet and S. Pele Workshop on Applica	g, "A _l	pplyi	ing Super-Resolution	to Panor	amic Mosa	ics", <i>IEEE</i>
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